

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-255976

(43)Date of publication of application : 25.09.1998

(51)Int.Cl.

H05B 33/14
H05B 33/10
H05B 33/22

(21)Application number : 09-056398

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(22)Date of filing : 11.03.1997

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(54) LIGHT EMISSION ELEMENT AND ITS MANUFACTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a display element in which high-precision, highreliability, and colored display is possible.

SOLUTION: A negative electrode 2 comprising material of a low work function for injecting electrons is formed on a surface (upper surface) of a first substrate 1, and a light emitting layer 3 is formed further on a surface (upper surface) of it. In the meanwhile, a transparent electrode 5 for injecting holes is formed on a surface (lower surface) of a second substrate 4, and a carrier transport layer 6 is formed further on a surface (lower surface) of it. Surfaces of the light emitting layer 3 and the carrier transport layer 6 are tightly applied to each other to form an electric junction part 7 to compose a light emission element. The holes injected from the transparent electrode 5 are transported through the carrier transport layer 6 to be injected to the light emitting layer 3. The electrons are directly injected from the negative electrode 2 to the light emitting layer 3, thereby light is emitted by recombination of the electrons and the holes inside the light emitting layer 3 or around an interface of the hole transport layer 6.

